

SAV 13.01.1986. Svetlovodsk. Subject: RIKHOMIROV, Ye. N., and co.
"The situation with horse removal in the liquid
of the Chernobyl accident." (MIRA MEL)

VOLOSHIN, A.I.; BOGOYAVLENSKIY, K.A.; AKHTYRCHENKO, A.M.; TURIK, I.A.; ZHIDKO, A.S.; LYALYUK, V.S.; GABAY, L.I.; ONOPRIYENKO, V.P.; STARSHINOV, B.N.; BABIY, A.A.; SAVELOV, N.I.; Prinimali uchastiye: TORYANIK, E.I.; VASIL'YEV, Yu.S.; SHEMEL', T.I.; SENYUTA, V.I.; BONDARENKO, I.P.; AMSTISLAVSKIY, D.M.; ANDRIANOV, Ye.G.; SERGEYEV, G.N.; ZAMAKHOVSKIY, M.A.; LYUKIMSON, M.O.; IVONIN, V.K.; TSIMBAL, G.I.; SEN'KO, G.Ye.; KONAREVA, N.V.; SOLODKIY, Yu.L.; LUKASHOV, G.G.; TARASOV, D.A.; GORBANEV, Ya.S.; SUPRUN, I.Ye.; TIKHOMIROV, Ye.I.; KONONENKO, P.A.; PROKOPOV, V.N.; GULYGA, D.V.; PLISKANOVSKIY, S.T.; PONOMAREVA, K.Ye.

Effect of the length of coking on coke quality and the performance of blast furnaces. Koks i khim. no.12:26-32 '61.

(MIRA 15:2)

1. Ukrainskiy uglekhimicheskiy institut (for Voloshin, Bogoyavlenskiy, Akhtyrchenko, Turik, Zhidko, Lyalyuk, Toryanik, Vasil'yev, Shemel'). 2. Zhdanovskiy koksokhimicheskiy zavod (for Gabay, Senyuta, Bondarenko, Amstislavskiy, Andrianov, Sergeyev, Zamakhovskiy, Lyukimson, Ivonin, TSimbal). 3. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (for Onopriyenko, Starshinov, Babiy, Sen'ko, Konareva, Solodkiy). 4. Zavod "Azovstal'" (for Savelov, Lukashov, Tarasov, Gorbanev, Suprun, Tikhomirov, Kononenko, Prokopov, Gulyga, Pliskanovskiy, Ponomareva).

(Coke)
(Blast furnaces)

L 60023605

ACC NR: AP6023605 (S)

SOURCE CODE: UR/0308/66/000/007/0023/0023

AUTHORS: Suprun, L. (Candidate of technical sciences, Chief); Nellis, A. (Engineer,²⁹
Deputy chief)²⁸

ORG: Corrosion Laboratory of TsNIIMF /headed by Candidate of technical sciences L.^B
Suprun /(Laboratoriya korrozii TsNIIMF); Engineering Division of the Baltic Steamship
Line /deputy chief engineer A. Nellis /(Tekhnicheskiy otdel Baltiyskogo parokhodstva)

TITLE: A protective shield for ballast tanks on dry cargo ships

SOURCE: Morskoy flot, no. 7, 1966, 23

TOPIC TAGS: water tank, cargo ship, ship component, corrosion protection, protective
shield, aluminum alloy, paint, sea water corrosion/ AMTs-15-10 aluminum alloy, N-1
protective shield, EKZhS-40 ethynol paint

ABSTRACT: In June 1964 type N-1¹⁰ sea water corrosion protection shields made of the
aluminum alloy AMTs-15-10 (15% Mg, 10% Zn) were mounted on the dry cargo ship
"Stanislavskiy" in the Kanonerskiy shipyard. Thirty-two of the shields measuring
60 x 150 x 500 mm were connected by steel brackets to the bottom of the ballast tanks,
one in each section. Each shield protected a 30-m² surface. To distribute uniformly
the current generated by the shields, six layers of EKZhS-40¹¹ ethynol paint¹² were
applied to the bottom face of the shields and to the tank bottom in a 500 x 700 mm
area at the point of the shield attachment. When underway the air outlet is open to

UDC: 629.123:620.197.1

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L 45084-66
ACC NR: AP6023605

vent the hydrogen generated from the tanks. An inspection in May 1965 showed no rusting and a uniform 15--20% shield erosion. The only maintenance required called for cleaning of the aluminum alloy decomposition products from the shields. The test showed that these plates together with other means provide a reliable and inexpensive method of salt water corrosion prevention in ballast tanks. The shields should last a minimum of 2--3 years. Orig. art. has 1 figure.

SUB CODE: 13.11/SUBM DATE: none

Card 2/2 blg

PERCHTEYN, V.A., inzh.; Prinitali uchastye v issledovaniyakh, Relye
inh.; NOVIKOV, Yu.V., inzh.; ISAYEV, A.V., strn.; GOFOV, P.I.,
inh.; KITANOVICH, V.A., inzh.; GLIKMAN, M.L., strn.; Mikhalevich,
nauk; SUPIN, L.A., kand.tekhn.nauk; nauchnyy red.; SIRKOV, P.I.,
kand.tekhn.nauk, oty.rei.

[Stress-rupture strength and creep of glass-reinforced plastic
for use as shipbuilding material. Silitel'naya prochnost' i
polimernyykh stekloplastikov kak stroymaterial'nykh materialov.
Leningrad, Izd-vo "Morskoi transport," 1981, 92 s. (Leningrad.
TSentral'nyi nauchno-issledovatel'skiy institut morskogo flota.
Trudy, no. 53)

1. Sotrudniki TSentral'nogo nauchno-issledovatel'skogo
kotloturbinnogo instituta imeni Polzunova (yer. Gremov, Niteysnik).

GLIEMAN, L.A.; BOGORAD, L.Ya.; SUPRUN, L.A.; OAKMAN, N.L.; ZHUKOVA, V.I.,
inzh.; red.; FREGER, A., tekhn.red.

[The effect of chrome plating on fatigue and corrosion resistance
of steel] Vliianie khromirovaniia na ustalostnuiu i korrozionno-
ustalostnuiu prachnost' stali. Leningrad, 1955. 9 p. (Leningradskii
dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii
listok, no.84(772)) (MIRA 10:12)

(Chromium plating)

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Успенский, П. А.

Бакин, Л. И.

"Ways of increasing the corrosion- and fatigue-resistance of the parts of ship mechanisms." Leningrad Shipbuilding Inst. Leningrad, 1956.
(Dissertation for the Degree of Candidate in Technical Sciences).

Knizhnaya letopis'
No 34, 1956. Moscow.

137-58-1-1316

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 176 (USSR)

AUTHORS: Glikman, L. A. Suprun, L. A.

TITLE: On the Development and Mechanism of Corrosion Fatigue Damage
(K voprosu o razvitiu i mehanizme korrozionnoustalostnogo
razrusheniya)

PERIODICAL: Tr. Tsentr. n.-i. in-ta morsk. flota, 1956, Nr 5, pp 25-31

ABSTRACT: The problem of the laws of initiation and development of cracks (C) in fatigue failure (FF) of steel subjected to corrosion testing simultaneous with cyclic testing over definite periods of time was investigated at various stress amplitudes. Specimens of Nr 35 carbon steel, previously heat treated by normalization from 850° and subsequent high-temperature tempering at 650°C, were tested. The corrosion medium was fresh water and 3% NaCl solution. It was found that under conditions of corrosion fatigue damage the duration of cyclic testing to the time of appearance of visible C was considerably less than in the FF of steel under ordinary atmospheric conditions. With a 3% NaCl solution, the incubation period for the initiation of C was about 10% of the total number of cycles required for failure, while

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137-58-1-1316

On the Development and Mechanism of Corrosion Fatigue Damage

with fresh water it was about 40% and in atmosphere, air about 70-90% of the total time required for FF. This distinctive characteristic of the development of fatigue C is explained by the large number of C in the zone of identical stresses normally observed in addition to the fracture in cases of corrosion FF. The speed of spreading of C once started into the depth of the material increases with an increase in stress amplitude and with an increase in the total number of cycles, and also with increase in the corrosiveness of the medium. It is shown that preliminary "exercising" of the specimens in air by cyclic testing for 10 million cycles at a level approaching the σ_w (stress amplitude 27 kg/mm²) increases their corrosion fatigue strength by approximately 30%. This confirms the hypothesis that a developing electrochemical inhomogeneity in the preliminary cyclic testing has a considerably smaller effect on the course of the process of corrosion than does the effect of electrochemical inhomogeneity developing when corrosion is present at the same time.

L. U.

- 1. Steel--Fatigue
- 2. Steel--Corrosion
- 3. Steel--Test methods
- 4. Steel--Test results

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137-58-1-1317

Translation from: Referativnyy zhurnal, Metaliurgiya, 1958, Nr 1, p 176 (USSR)

AUTHORS: Glikman, L. A., Suprun, L. A.

TITLE: The Effect of Surface Hardening by Shot Blasting on the Corrosion Fatigue Strength of Steel (Vliyanie poverkhnostnogo uprochneniya drobestrueynoy obrabotkoy na korrozionnoustalost' nuyu prochnost' stali)

PERIODICAL: Tr. Tsentr. n. i. in-ta morsk. flota, 1956, Nr 5, pp 32-35

ABSTRACT: An investigation was made into the effect of shot blasting on fatigue strength (FS) and corrosion fatigue strength (CFS) of specimens of Nr 35 steel that had undergone prior heat treatment. It was found that shot blasting conducted by any of the procedures in current practice, fully approved for standard fatigue testing, retains a favorable influence for corrosion strength in a 3% NaCl solution only over a limited range of cycles (about 2×10^6 cycles). Good protective properties have been demonstrated by a combined protection afforded by shot blasting and by Mg cladding - the CFS proved to be 7% higher than even the FS under atmospheric conditions. From this it follows that to increase the FS of steel products operating under

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137-58-1-1317

The Effect of Surface Hardening (cont.)

the simultaneous effects of variable stresses and corrosion, surface hardening must be applied only in combination with other methods of protection (coatings, or cladding, or cathodic protection).

1. Steel--Heat treatment 2. Steel--Corrosion 3. Steel--Fatigue
4. Steel--Hardening--Effects

L.U.

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Glikman, L. A.

137-58-1-1395

Translation from: Referativnyy zhurnal Metallurgiya 1958, Nr 1, p 186 (USSR)

AUTHORS: Glikman, L. A., Suprun, L. A., Bogorad, L. Ya., Gakman, E. L.

TITLE: Effect of Chromium Plating on the Fatigue and Corrosion
Fatigue Strengths of Steel (Vliyaniye khromirovaniya na usta-
lostnuyu i korrozionnoustalostnuyu prochnost' stali)

PERIODICAL: Tr. Tsentr. n.-i. in-ta morsk. flota, 1956, Nr 5, pp 36-42

ABSTRACT: The results of an investigation of the effects of the chromium plating procedure employed upon the fatigue strength (FS) and the fatigue corrosion strength (FCS) of specimens of Nr 35 carbon steel subjected to heat treatment are presented. When tested for FCS the midsection of the specimen was in a flowing liquid medium (3% NaCl). Seven chromium platings, differing as to plating procedure and the condition of the Cr coating, were tested. The chromium plating 'C' of all the specimens was performed in a bath with an electrolyte of identical composition (in g/l): CrO₃ 150, H₂SO₄ 1.5. It was found that C differs in its effect upon FS when tested in air, depending on the plating procedure. For specimens coated with bright and cloudy Cr, significant diminution in the FS of the parent metals was found,

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137-58-1-1395

Effect of Chromium Plating on the (cont.)

which is explained by the presence in the coating of residual tensile stresses, and the positive effect of tempering at 550-600°C was confirmed, as it restored the FS almost completely. In porous chromium plating, no reduction in FS was revealed, and this is explained by the significantly diminished magnitude (due to general development of a network of cracks) of residual tensile stresses in such coating. Corrosion fatigue tests showed that C provides unsatisfactory protection against reduced FS of steel under conditions of corrosion. Tempering after C has virtually no effect on the FCS of steel: all tests revealed a comparatively small difference between the curves for corrosion fatigue of C and of non-chromium-plated specimens. A strict relationship between the corrosion strength and the number of cycles was found to exist in both categories. The use of a supplementary 2-layer Ni and Cu coating beneath the Cr does not improve the protective properties of the coating. A significant improvement in the protection against reduction in FS against corrosion of specimens covered by bright Cr was attained only with a preliminary two-hour heating of the chromium-plated specimens in flaxseed oil at 140-150°. In the opinion of the authors, the unfavorable effect of Cr coatings upon the FCS of steel is explained by the appearance of cracks in the coating under cyclic loads, these cracks serving as channels leading the corrosive medium to the parent metal.

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L, U,

1. Steel--Fatigue 2. Steel--Corrosion 3. Chromium plating--Effects

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CIA-RDP86-00513R001653920013-1"

OLIKMAN, L.A.; SUPRUN, L.A.; KOSTROV, Ye.N.

Method for corrosion fatigue testing of specimens 60mm in diameter.
Zav. lab. 23 no.3:343-345 '57. (MIRA 10:6)
(Corrosion and anticorrosives) (Metals--Fatigue)

GLIKMAN, L.A.; KOSTROV, Ye.N.; SUPRUN, L.A.; YELIN, I.A.; SHCHERBAKOV, P.S.; ZOBACHEV, Yu.Ye.; DOBRER, V.K.; STRUMPE, P.I., kand.tekhn.nauk, otv. red.; ARAKELOV, V.M., nauchnyy red.; BAMA, N.G., red.; KOTLYAKOVA, O.I., tekhn.red.

[Organization and technology of ship repair; corrosion and mechanical strength of metals] Organizatsiia i tekhnologiiia sudoremonta; voprosy korrozionno-mekhanicheskoi prochnosti metallov. Leningrad, Izd-vo Morskoi transport 1959. 76 p. (Leningrad. tsentral'nyi nauchno-issledovatel'skii institut morskogo flota. Trudy no.22) (MIRA 12:5)
(Metals--Testing) (Corrosion and anticorrosives)

S/123/61/000/016/017/022
A004/A101

PERIODIC

AUTHOR: Suprun, L.A.

TITLE: Method of calculating the protection of the underwater part of the hulls of sea-going ships by protectors

PERIODICAL: Referativnyy zhurnal. Mashinostroyeniye, no. 16, 1961, 36, abstract 16L252 ("Sudostroyeniye", 1961, no. 4, 5 - 9)

TEXT: The author gives an account of the calculation of protection by protectors, the main tenets of which can be used also for the calculation of cathode protection. The protectors made of alloys on the base of magnesium or aluminum in the form of rectangular bars are placed in separate groups or in an uninterrupted line below the side keels over the whole length of the ship. To stop the corrosion destruction, the potential of the ship's hull is increased towards the negative side by 0.2 v and is brought to 0.85-0.9 volt relative to the chloro-silver or copper-sulfate calibrating electrode. The electrochemical protection of the underwater part is economically the most efficient in combination with varnish and paint coatings (ethynol paint). The protection by protectors used on sea-going ships is always adjustable one, i.e. the magnitude of the protective

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S/123/61/000/016/017/022
A004/A101

Methods of calculating ...

current is varied by rheostats in such a way that the potential of the hull is equal to the protective one. The author presents formulae for the calculation of the required protective current intensity, the resistance to the leakage of the current from the protector anodes, the resistance of the medium (sea water), the resistance to the leakage of the current from the hull-cathode, the current intensity of the galvanic couple, protector utilization factor, service life of protector-type protection, maximum resistance of rheostat or group of rheostats within each protector group. For a correct calculation of protector-type protection it is necessary to determine the total resistance to the galvanic current, and thereby, the resistance to the leakage of the current from the protector-anodes. Further on, the geometrical dimensions of the protectors and their number are established which ensure the necessary current intensity. The protector utilization factor is introduced into the calculation to take into account the mutual effect of protector groups located on different sections of the ship's hull. The protector material is selected in the course of the calculation of the protective-type protection, the determining factor being the protector "fiber" length. For alloys on the base of aluminum the "fiber" length is considerably greater than for magnesium-base alloys. The "fiber" length decreases somewhat if the protector width and thickness is increased. Approximate calculations show that aluminum-

Card 2/3

BARDINA, V.P.; SUPRUN, L.A.; SHCHERBAKOV, P.S.

Resistance of lacquer-paint coatings to sea water while under
the protection of electric current, Lakokras. mat. i ikh,
prim. no.4:38-45 '61.
(MIRA 16:7)

1. ~~Central'nyy nauchno-issledovatel'skiy institut morskogo~~
~~flota.~~
(Ships---Painting)

SUPRUN, L.A., kand.tekhn.nauk

Methods of calculating the cathodic protection of the underwater part of seagoing ship hulls. Sudostroenie 28 no.2:11-16 F '62.
(Hulls (Naval architecture)--Corrosion) (Cathodic protection)

(MIRA 15:3)

UCHERBAKOV, P.S., inzh.; ZOBACHEV, Yu.Ye., kand.tekhn.nauk; SUPRUN, L.A.,
kand.tekhn.nauk

Corrosion failure of shipbuilding materials in a stream of
sea water. Sudostroenie 28 no.6:55-59 Je '62. (MIRA 15:6)
(Corrosion and anticorrosives) (Sea water)

S/080/62/035/005/010/015
D205/D307

AUTHORS: Suprun, L. A. and Shcherbakov, P. S.

TITLE: On the electrochemical behavior of shipbuilding steel
in sea water streams

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 5, 1962, 1071-
1076

TEXT: The cathodic and anodic polarization processes in strong
sea water currents had not been sufficiently investigated before.
The shipbuilding steel 4C (4S) was investigated in water of the
Black Sea with stream velocities of 2, 4, 8, 12 and 16 m/sec. The
cathodic polarization curves of polished samples have shown that
whereas in stationary water the limiting diffusion current density
was 0.25 amp/m² it increased to about 5, 16, 21, 25 and 30 amp/m²
for the above-mentioned stream velocities respectively. The intro-
duction of O₂ at a rate of 6 l/min further increased the limiting
diffusion currents. The limiting diffusion currents for corroded

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On the electrochemical ...

S/080/62/035/005/010/015
D205/D307

samples were by about 50% less than those for polished samples. Thus, rust has a screening action in moving sea water, contrary to its action in stationary water. The anodic polarization curves for the steel in moving sea water differed very slightly from these in stationary water. In Caspian Sea water the changes were more pronounced. By measuring the corrosion intensity the following density values of protecting currents were determined: 2.5, 4, 7 and 11 amp/m² for stream velocities of 2, 4, 8 and 12 m/sec respectively. These are lower than the above indicated limiting diffusion current values. This is explained by the formation of a protecting salt film consisting mainly of CaCO₃. The behavior of steels O9G2 (09G2) and CXA-1 (SKhL-1) does not differ from that of the 4S steel. The same protection current densities may be used for all carbon and low-alloyed shipbuilding steels. There are 6 figures.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota (Central Scientific Research Institute

Card 2/3

SUPRUN, L.A., kand. tekhn. nauk; BARDINA, V.P.; VYSOTSKIY, A.A.

Testing by means of models the electrochemical protection against corrosion of merchant ship hulls and determining the effect of propellers on the conditions of functioning of this protection.
Trudy TSNIIMF 57:3-25 '64. (MIRA 18:2)

BAMINA, V.N.; SITEN, I.A., kand. tekhn. nauk

Investigating coatings for use as an anode screen in cathodic protection. Trudy ISMIR 57:26-36 '64.

Investigating the chmic resistance of eth nol coatings. Ibid.:
37-42
(MIRA 18:2)

SU 7/1/56

MASHOVETS, V.P., doktor tekhnicheskikh nauk, professor; RAMLAU, A.I.,
assistant, inzhener; SUPRUN, L.M., assistant, inzhener.

Electrode potentials of copper oxide electrode elements and testing
the discharge duration pattern. Sbor.LIIZHT no.151:222-237 '56.
(Electrodes) (MLRA 10:1)

SUPRUN, L.V. (sumy, ul. Zasumskaya, d.76)

Case of right-sided diaphragmal hernia of the morgagnian foramen.
Nov.khir.erkh. no.4:69 Jl-Ag '57. (MIRA 10:11)

1. Khirurgicheskoye otdeleniye Samskoy oblastnoy bol'nitsy
(DIAPHRAGM--HERNIA)

SUPRUN, L.V. (Sumy, ul. Zasumskaya, d.76)

Surgery for pulmonary hemorrhage. Nov.khir.arkh. no.1:105-
107 Ja-F '59. (MIRA 12:6)

1. Khirurgicheskoye otdeleeniye Sumskoy oblastnoy bol'nitsy.
(LUNGS--SURGERY)

SUPRUN, L.V. (SUV, ul.Zasumskaya, d.76)

Case of echinococcus affecting the lungs and liver. Nov.khir.
arkh. no.3:80-82 My-Je '59. (MIRA 12:10)

1. Khirurgicheskoye otdeleniye Sumskoy oblastnoy bol'nitsy.
(LUNGS--HYDATIDS) (LIVER--HYDATIDS)

SUPRUN, L.V. (Sumy, ul. Zasumskaya, d.76)

Removal of a foreign body (bullet) from the segmental bronchus by
means of dissection of the latter. Nov.khir.arkh. no.6:91-92 N-D
'59. (MIRA 13:4)

1. Khirurgicheskoye otdeleniye Sumskoy oblastnoy bol'nitsy.
(BRONCHI--FOREIGN BODIES)

SUPRUN, L. V. (Sumy, ul. Zasumskaya, d. 76)

Surgical treatment of gastric cancer according to data of the
surgical ward of Sumy Province Hospital. Nov. khir. arkh. no.2:
21-24 '62. (MIRA 15:2)

1. Khirurgicheskoye otdeleniye (zav. - L. V. Suprun) Sumskoy
oblastnoy bol'nitsy.

(STOMACH-CANCER) (STOMACH-SURGERY)

NIKIFOROVSKAYA, T.A.; SUPRUN, M.N.; GASPARYAN, A.M., prof., otv.rod.;
SHEVCHENKO, F.Ya., tekhn.red.

[List of dissertations defended at the First Leningrad Medical
Institute from 1935 to 1958] Uказател' dissertatsii, zashchi-
shchennykh v I Leningradskom meditsinskem institute v 1935-1958 gg.
Leningrad, Medgiz, 1959. 83 p. (MIRA 14:12)

1. Leningrad. Pervyy Leningradskiy meditsinskiy institut.
(LENINGRAD--BIBLIOGRAPHY--DISSERTATIONS, ACADEMIC)
(BIBLIOGRAPHY--MEDICINE)

SURKIN, N. N.

"On Changes in the External Form of a Surface in Connection With Charges in Its Internal Metrics." Cand Phys-Math Sci, Khar'kov State U, Khar'kov 1955. (KL, No 15, Apr 55).

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

SUPRUN, N.M.

Reconstruction of an analytic function from the values of
its derivatives generalized in the sense of A.O.Gel'fond,
at a certain point. Dokl. AN SSSR 157 no.4:806-809 Ag '64
(MIRA 17:8)

1. Poltavskiy inzhenerno-stroitel'nyy institut. Predstavleno
akademikom I.M. Vekua.

SUPRUN, F., podpolkovnik; KOLYADIN, A., major

With a pilot-engineer license. Av. i Kosm. L7 no.135-10 Ja'65
(MIRA 18:1)

The determination of morphine in opium infusion.
P. P. Suprun. *Avtokhme Delo* 3, No. 6, 45-6 (1954).

One cc. of infusion is evapd., made alk. with 2 cc. 4% NaOH, and transferred quantitatively to a separatory funnel. The fluid is extd. 3 times by shaking 5 min. with 10-15 cc. of CHCl₃. The CHCl₃ is removed, the alk. soln. is treated with dil. HCl until acid, 7-8 drops, and then with 10% NH₃ or Na₂CO₃ soln. until alk. to Congo red. The morphine is extd. 4 times with CHCl₃-C₂H₅OH mixt. (9:1), by using 15-20 cc. each time. The exts. are filtered through a layer of anhyd. Na₂SO₄, the filter is rinsed with CHCl₃, the latter evapd., 10 cc. of 0.1N NaHSO₃ is added, and the alkaline filtrate is titrated with 0.01N borax solution. (See Fig. 1.)

MD

A. S. Mirkin

SUPRUN, P.P.

Iodochlorometric method for the qualitative determination of
rivanol. Med. prom. 11 no.2:49-50 F '57 (MLRA 10:4)

1. Kontrol'no-analiticheskaya laboratoriya Sumskogo oblastnogo
aptekoupravleniya.
. (RIVANOL) (IODOMETRY)

Suprun, P.P.

SUPRUN, P.P.

Iodometric quantitative analysis of ethazole (aminobenzene-sulfamidoethyl-3,4-thiadiazole). Med.prom. 11 no.12:45-46 D '57.
(MIRA 11:2)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya Sumskogo oblastnogo aptekoupravleniya.
(THIADIAZOLE) (IODOMETRY)

SUPRUN, P.P.

Determining the iodine number of fats in an aqueous medium
without using an emulsifier. Apt.delo 7 no.3:48-51 My-Je '58
(MIRA 11:7)

1. Iz Konotouskoy ontrol'no-analiticheskoy laboratorii Sumskogo
oblastnogo aptechnogo upravleniya Glavnogo aptechnogo upravleniya
USSR.

(IODINE NUMBER)
(OILS AND FATS--ANALYSIS)

SUPRUN, P.P.

Aalimetric quantitative determination of phthivazid. Med.prom. 12
no.2:50-51 F '58. (MIRA 11:3)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya Sumskogo
oblastnogo aptekoupravleniya.
(ISONICOTINIC ACID)

SUPRUN, P.P.

Iodochlorometric quantitative determination of methylene blue.
Med.prom. 12 no.8:38-40 Ag '58 (MIRA 11:9)

1. Konotopskaya kontrol'no-analiticheskya laboratoriya Sumskogo
oblastnogo aptekoupravleniya.
(METHYLENE BLUE)

SUPRUN, P.P.

Argentometric method for a quantitative determination of eaiodine
and sergosine. Med.prom. 12 no.11:39-40 N '58 (MIRA 11:12)
(DOCOSANIC ACID)
(SULFONIC ACID)

SUPRUN, P.P.

Alkalimetric method for the quantitative determination of glutamic acid.
Apt.delo 8 no.5:61-62 S-0 '59. (MIRA 13:1)

1. Iz Konotopskoy kontrol'no-analiticheskoy laboratorii (zav. P.P.
Suprun) Sumskogo oblastnogo aptechnogo upravleniya Glavnogo aptechnogo
upravleniya (GAPU) USSR.
(ALKALIES) (GLUTAMIC ACID)

SUPRUN, P.P.

Argentometric method for the determination of hexachlorethane
(fasciolin). Med.prom. 13 no.12:43-45 D '59. (MIRA 13:4)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya Sumskogo
oblastnogo apteko-upravleniya.
(ARGENTOMETRY) (ETHANE)

SUPRUN, P.P.

New rapid methods for the quantitative determination of teo-
fillin in a pure preparation and in euphyllin. Apt.delo 9
no.2:49-52 Mr-Ap '60. (MIRA 13:6)

1. Is Konotopskoy kontrol'no-analiticheskoy laboratorii Sumsko-
go oblastnogo aptechnogo upravleniya Glavnogo aptechnogo uprav-
leniya Ukrainskoy SSR.
(PURINES) (AMINOPHYLLINE)

SUPRUN, P.P.

Accelerated method for the quantitative determination of the sum
of the isomers of DDT (dichlordiphenyltrichlormethylmethane) and
hexachlorane in a pure preparation and in dusts. Apt. delo 9
no.3:19-22 My-Je '60. (MIRA 14:3)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya (zav. P.P.
Suprun) Sumskogo oblastnogo aptechnogo upravleniya.
(DDT (INSECTICIDE)) (BENZENE HEXACHLORIDE)

SUPRUN, P.P.

Quantitative determination of phytin in preparations and in tablets.
Med. prom. 14 no.7:42-44 Je '60. (MIRA 13:8)

1. Sumskoye oblastnoye aptekoupravleniye.
(PHYTIN)

SUPRUN, P.P.

Iodochlorometric method for quantitative determination of ichthyol in
pure preparations, solutions and ointments. Apt. delo.10 no.4:38-42
J1-Ag '61. (MIRA 14:12)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya.
(ICHTHAMMOL)

SUPRUN, P.P.

Volumetric method for the quantitative determination of rutin
(quercetin rhamnoside). Med. prom. 15 no. 3:46-48 Mr '61.
(MIRA 14:5)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya Sumskogo
oblastnogo aptekoupravleniya.
(RUTIN) (VOLUMETRIC ANALYSIS)

SUPRUN, P.P.

Fest complexometric method for quantitative determination of sodium sulfate. Farmatsev. zhur. 16 no.4:28-30 '61.
(MIRA 17:6)

1. Zaveduyushchiy Konotopskoy kontrol'no-analiticheskoy laboratoriyye aptekoupravleniya Sumskogo oblastnogo otdela zdravookhraneniya.

SUPRUN, P.P.

From the experience of the control and analysis laboratory.
Apt. de o. 11 no.5: 33-34 740 162. (MIRA 17:5)

1. Konotopskaya, Kirov, Moscow, Russia

SUPRUN, P.P.

Iodometric method for the quantitative determination of
dibazol(2-benzyl-benzimidazole). Med. prom. 16 no.1:47-49
Ja '62. (MIRA 15:3)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya
Sumskogo oblastnogo aptekoupravleniya.
(BENZIMIDAZOLE)

SUPRUN, P.P.

Rapid and accurate methods for the quantitative determination
of bilitrast. Apt.delo 12 no.3:34-37 My-Je '62. (MIRA 16:1)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya.
(BILITRAST)

SUPRUN, P.P.

Rapid volumetric methods for quantitative determination of tannin
(gallotannic acid). Farmatsav. zhur. 17 no.5:20-25 '62. (MIRA 17:5)

1. Zaveduyushchiy Konotopskoy kontrol'no-analiticheskoy laboratoriye
aptechnogo upravleniya Sumskogo oblastnogo otdela zdravookhraneniya.

1959, No. 1.

Photochrometric method for quantitative determination of
formaldehyde and acetone and a new qualitative reaction for
carboxylic acids. Farmatshev. zhur. 17 no. 6:37-40 '62. (MIA 1746)

I. Korotopskaya kontrol'no-analiticheskaya laboratoriya
Aptekarskogo upravleniya Sumenskogo oblastnogo otdela
zdravookhraneniya.

SUPRUN, P.P.

Iodochlorometric method of determining pentoxyll and metacil.
Apt. delo 12 no.5:40-43 S-0'63 (MIRA 16:11)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya.

*

SUPRUN, P.P.

Iodochlorometric determination of citral. Apt. delo 12 no.6:
64-65 N-D '63. (MIRA 17:2)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya.

SIFRIN, I.I.

quantitative determination of anise oil in ammonium chlorido-anise
drops. Farmatsev. zhur. 17 no.3:34-35 '62. (MIR 17:10)

1. Kirovskaja kontrol'no-analiticheskaya laboratoriya aptech. go
upravleniya Sverdlovskogo oblastnogo otdela zdravookhraneniya.

SURVEY, I.I.

Iodocilometric methods for quantitative determination of antituber-
culotic pharmaceutical preparations, derivatives of isonicotinic acid.
Farfazev, zhur. 18 no.2:43-51 '63. (I.I. 17:10)

I. Monotopskaya kontrol'no-analiticheskaya laboratoriya aptechnogo
upravleniya Smolenskogo oblastnogo otdela zdravookhraneniya.

SUPRUN, P.P.

Iodochlorimetric method for the quantitative determination of ichthyol
in preparations, solutions and ointments. Farmatsev. zhur. 19 no.4:42-
45 '64. (MIRA 17:11)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya aptechnogo
upravleniya Sumskogo oblastnogo otdela zdravookhraneniya.

SUPRUN, V.V.

Study of the interaction reaction of furanilin with iodine chloride.
Apt. 190 13 M. S. Street, Mr-dy '64.

(MIRA 17:12)

~, kontrolyav kontrolino-analiticheskaya laboratoriya,

SUPRUN, P.P.

Volumetric quantitative determination of antibiotics of
the tetracycline series. Report No. 1. Farmatsev. zhur.
20 no.5:39-44 '65. (MIRA 18:11)

1. Konotopskaya kontrol'no-analiticheskaya laboratoriya
aptechnogo upravleniya Sumskogo oblastnogo otdela zdravo-
okhraneniya. Submitted February 14, 1964.

SUPRUN, P. S.

"The Autumn Planting of Oaks in Shelter Belts Under the Conditions
Which Exist on the Left Bank Forest Steppes of the Ukraine." Cand Agr
Sci, Khar'kov Agricultural Inst, Khar'kov, 1953. (RZhBiol, No 6, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

SUPRUN, P.P., kandidat selskokhozyaystvennyx nauk; ALEN'T'EVA, L.I..
kandidat selskokhozyaystvennyx nauk.

Control of soil erosion in the Donets Basin. Zemledelie 5
no.9:56-58 S '57. (MLRA 10:9)

1. Voroshilovgradskiy selskokhozyaystvennyy institut.
(Donets Basin--Erosion)

UGSR/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biol., No 10, 1958, 43133

Author : Suprun, T.P.

Inst :

Title : New Species of *Penicillium* *Silvaticum* Sp. Nov. from
Moscow Forest Soils.

Orig Pub : Byul. Mosk. o-va ispyt. prirody. Otd. biol., 1956, 61, No
4, 90-92.

Abstract : *P. silvaticum* nov. sp. isolated from Moscow soils belongs
to the section Monoverticilata, series *P. thomi*, and is
related to the group *P. turbatum*-*P. pusillum*.

Card 1/1

SIZOVA, T.P.; SUPRUN, T.P.

New genus of the order Hyphomycetales. Vest.Mosk.un.Ser.
biol., pochv., geol., geog. 12 no.2:55-58 '57. (MIRA 10:10)

1.Kafedra nizshikh rasteniy Moskovskogo universiteta i Vsesoyuz-
nyy nauchno-issledovatel'skiy institut antibiotiki.
(Hyphomycetes--Osh Province)

SIZOVA, T.P., SUPRUN, T.P.

Survey of principal methods used in studying soil mycoflora.
Nauch.dokl.vys.shkoly; biol.nauki no.1:119-128 '58 (MIRA 11:8)

1. Predstavlena kafedroy nizshikh rasteniy Moskovskogo gosudarstvennogo
universiteta im. M.V. Lomonosova.
(SOILS--ANALYSIS)
(FUNGI)

SUPRUN, T.P.; BEKKER, Z.E.

On a method for determining antibiotic-producing fungi in soil.
Antibiotiki 4 no.4:37-43 J1-Aug '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(SOIL microbiol)
(FUNGI)

BEKKER, Z.E.; PLATONOVA, M.V.; SUPRUN, T.P.

Antagonistic fungi and soil formation. Izv. AN SSSR, Ser. Biol.
no. 5: 765-772 S-0 '59. (MIHA 13:2)

1. The Faculty of Biology and Soil Sciences, the State Uni-
versity, Moscow.
(Soil micro-organisms) (Bacterial antagonism)
(Soil formation)

BEKKER, Z.E.; SUPRUN, T.P.

— Studying the fungi of forest soils in Amur Province. Bot.shur.
45 no.3:404-410 Mr '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva i Amurskaya ekspeditsiya. Soveta po izucheniyu proizvodi-
tel'nykh sil AM SSSR.
(AMUR PROVINCE—SOIL MICRO-ORGANISMS)
(FOREST SOILS) (FUNGI)

BEKKER, Z.E.; SUPRUN, T.P.; RODIONOVA, Ye.G.; YANGULOVA, I.V.

Cytotoxic properties of extracts from fungal mycelia. Antibiotiki
6 no.2:108-111 F '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut' antibiotikov.
(FUNGI) (CYTOTOXIC DRUGS)

BEKKER, Z.E.; SUPRUN, T.P.; AVRAAMOVA, O.P.; YANGULOVA, I.V.

Antagonistic fungi in soils of the plant communities of Central
Asian plains. Bot. zhur. 46 no. 5:651-661 My '61. (MIA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

(Soviet Central Asia—Soil micro-organisms)

BEKKER, Z.E.; SUPRUN, T.P.; YANGULOVA, I.V.; AVRAAMOVA, O.P.;
RODIONOVA, Ye.G.

Studies on antagonistic fungi inhabiting the soils of alpine
plant formations of Central Asia. Bot. zhur. 46 no.11:1627-1637
N '61.
(MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.
(Soviet Central Asia—Soil micro-organisms)

SIZOVA, T.P.; SUPRUN, T.P.

Some data on the soil mycoflora of birch, linden and spruce
forests of the Zvenigorod Biological Station of Moscow State
University and of the rhizospheres of the respective species.
Biul.MDIP.Otd.biol. 67 no.5:112-119 S-0 '62. (MIRA 15:10)
(ZVENIGOROD REGION--SOIL FUNGI)
(RHIZOSPHERE MICROBIOLOGY)

SUPRUN, T.P.

Seasonal changes in the microflora of forest soils in the vicinity
of Moscow. Nauch. dokl. vys. shkoly; biol. nauki no.3:93-103
'63. (MIRA 16:9)

1. Rekomendovana Vsesoyuznym nauchno-issledovatel'skim
institutom antibiotikov.
(Forest soils) (Moscow Province—Soil microorganisms)

SUPRUN, T.P.; AVRAAMOV, O.P.; RKKER, S.S.

Distribution of antibiotic-producing soil fungi in Central Asia
as related to the altitude of the place. Biul. MOIP. Otd. biol.
68 no.4:84-92 Jl-Ag '63. (MIRA 16:10)

DANILOV, Z. N.; CHUPRIN, V. P.; DMITRIYEV, S. V.; NESTERENKO, YU. F.

"Morphogenesis and metabolism of fungi with special attention to the nucleic acids and their antimetabolites."

report submitted to 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

All-Union Sci Inst for Antibiotics, Moscow State Univ.

BANKOV, ...S.; RUPRICH, T.P.; LEBED', E.S.

Cytotoxic substances from fungi of various ecological groups.
Antibiotiki 9 no.1:29-32 Ja '64. (MIRA 18:3)

I. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

• The lasting effect of Soviet influence on the Arab governments
Afghanistan, Libya, Iraq, Iran, and Turkey; file number: 184-192 '65.
(WRA 13:10)
• The relationship between the Arab-in-London PLO and the
Arab-in-London PLO.

RECEIVED IN LIBRARY

REF ID: A232003/0539/0545

AUTHOR: Suprun, V. I.

JOURNAL: "Preparativno-tekhnicheskaya i otsenivayushchaya soi

SOURCE: Mikrobiologiya, v. 41, no. 2, 1969, 539-545

TOPIC-KEYS: Fungus, antibiotic, viability, survival, soil, antibiotic, microorganism, life

ABSTRACT: Fungus molds (100 strains) isolated from 307 soil samples were exposed to antibiotics (penicillin, streptomycin, actinomycin, kanamycin, tetracycline, etc.) for 1 to 10 yrs.

RESULTS: After 10 days of culture at 28°C, 100% of the molds survived. It was shown that prolonged exposure to antibiotics did not affect the viability of the fungi. After 10 years of exposure, 90% of the strains survived.

least effective with fungus mold strains found in cold moist soils.

Card 1/2

ASSOCIATION NR: A-174-3

Orig. art. has: 1 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut
antibiotikov (All-Union Scientific Research Institute of Antibiotics)

TYPE: IS

SUPRUN, T.P.; SARUKHANOVA, L.Ye.

Change in the composition of dominant forms of soil fungi
in fir and birch forests following succession of one species
by another. Biul.MCIP.Otd.biol. 70 no.5:74-78 S-0 '65.
(MIRA 18:12)

SUPRUN, V.K., inzh.

Study of the character of the flow in the impeller of a
suction dredge. Sbor. trud. VNII Nerud no.4:91-102 '65.
(MIRA 18:11)

(Poultry houses & eq. equipment) (M.R. P:11)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653920013-1"

OVCHINNIKOV, N.M.; EL'PINER, I.Ye.; REZNIKOVA, L.S.; SUPRUN, Ye.T.

Sound-treated antigens in the serodiagnosis of syphilis and gonorrhea.
Tab.delo 7 no.738-41 J1 '61. (MIRA 14:6)

1. Mikrobiologicheskiy otdel (zav. - prof. N.M.Ovchinnikov)
TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo
instituta i laboratorii ul'trazvuka (zav. - prof; I.Ye.El'piner)
instituta biofiziki AN SSSR, Moskva.
(ANTIGENS AND ANTIBODIES) (SYPHILIS)
(GONORRHEA)

SUPRUN, Ye.T.

Gonococcal fractions as antigens for Bordet-Gengous reaction
in gonorrhea. Vest.derm.i ven. no.8:49-55 '61. (MIRA 15:5)

1. Iz otdela mikrobiologii (zav. - prof. N.M. Ovchinnikov)
TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo
instituta (dir. N.M. Turanov) Ministerstva zdravookhraneniya RSFSR.

(GONORRHEA)

SUPRUN, Yuriy Maksimovich; LEVITSKIY, Ya.B., inzh., retsenzent;
OL'FERT, A.I., inzh., red.; SABITOV, A., tekhn. red.

[Preperation of large sizes of coal] Obogashchenie krupnykh
klassov uglei. Moskva, Gosgortekhizdat, 1962. 117 p.
(MIRA 15:12)
(Coal preparation)

REVKO, I.N., SURNUNCHUK, V.I., BANIKH, T.A.

Fusibility diagram of the ternary system $\text{NaF} - \text{NaCl} - \text{Na}_2\text{ZrF}_6$.
Ukr. khim. zhur. 31 no.9:927-930 '65. (MLR 18:11)

I. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

SHEYKO, I.M.; MEL'NIKOV, V.I.; SUMENCHUK, V.I.

Melting diagram of the system NaCl - KCl - K₂ZnF₆ - Na₂ZnF₆.
Ukr. khim. zhur. 30 no.7:688-692 '64 (M.RA 18:1)

1. Institut obozreniya i neorganicheskoy khimii AN UkrSSR.

SHEYKO, I.N.; CHENOV, R.V.; SUPRUNCHUK, V.I.

Fusibility diagram of the ternary system KF - KCl - K_2ZrF_6 .

Ukr. khim. zhur. 31 no. 11:1143-1147 '65 (MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

POLOZ, K.; KOSOVSKAYA, A., tekhnik; VENCEROV, A.; SHEUDITIS, B.;
KAZLAUSKAS, V., prepodavatel'; ATKOCCHAITIS, Ye. [Atkocaitis, E.],
robotnik; SUPRUNENKO, A.; LITYAGIN, A., starshiy inzh.;
KOSHELEV, V.

Exchange of news and experience. Izobr.i rats. no.3:28-29
Mr '62. (MIRA 15:2)

1. Zamestitel' nachal'nika proizvodstvenno-tehnicheskogo
otdeleniya steklotarnogo zavoda, g.Kerch' (for Poloz).
2. Makevskiy koksokhimicheskiy zavod, g.Makeyevka (for Kosovskaya).
3. Predsedatel' revizionnoy komissii soveta Vsesoyuznogo obsh-
chestva izobretateley i ratsionalizatorov Zyryanovskogo svint-
sovogo kombinata, Vostochno-Kazakhstanakaya obl. (for Vengerov).
4. Chlen Litovskogo respublikanskogo soveta Vsesoyuznogo ob-
shchestva izobretateley i ratsionalizatorov (for Sheuditis).
5. Vecherniy institut tehnicheskogo tvorchestva, g.Kaunas (for
Kazlauskas).
6. Vil'nyusskiy molochnyy kombinat (for Atkochaytis).
7. Sekretar' rayonnogo soveta Vsesoyuznogo obshchestva izobretateley
i ratsionalizatorov Kiievskogo otdeleniya Yugo-Zapadnoy zheleznoy
dorogi, (for Suprunenko).
8. Oblastnoy sovet Vsesoyuznogo ob-
shchestva izobretateley i ratsionalizatorov g. Tula (for Lityagin).
9. Sekretar' krayevogo soveta Vsesoyuznogo obshchestva izobretateley
i ratsionalizatorov, g. Krasnodar (for Koshelev).

(Technological innovations)

MALKOV, A.M.; SUPRUNENKO, A.I.

Effect of 2,4-dinitrophenol on aerobic fermentation and synthesis of pyrophosphoric compounds in yeasts during multiplication [with summary in English]. Mikrobiologija 27 no.1:12-18 Ja-F '58.
(MIRA 11:4)

1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(NITROPHENOOLS, eff.
2,4-dinitrophenol on aerobic fermentation & phosphorylation
in yeasts (Rus)
(YEASTS, metab.
aerobic fermentation & phosphorylation, eff. of 2,4-
dinitrophenol (Rus)

80577
S/051/60/008/06/008/024
E201/E691

5.3100

AUTHORS: Smirnov, L.V. and Suprunenko, A.I.

TITLE: Dependence of the Electronic Spectra of the Simplest Derivatives of Benzene on pH. I. The Absorption Spectra of Oxybenzenes.¹

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 6, pp 799-805 (USSR)

ABSTRACT: The authors describe an investigation of the dependence of the electronic absorption spectra (between 180 and 350 m μ) of solutions of some oxyderivatives of benzene on pH of the solution. The results are used to identify the bands in these spectra. For convenience the following notation was employed by the authors: starting from 180 m μ the 1B_b band, and the 1L_a , 1L_b bands of benzene were denoted by A, B, C respectively. The oxyderivatives of benzene were: phenol¹(Fig 1^a and Fig 2), pyrocatechin (Fig 1^b and Fig 3), resorcin (Fig 1^c and Fig 4), hydroquinone¹(Fig 1^d and Fig 5), and phloroglucin (Fig 1^e and Fig 6). The A-band was found to lie at wavelengths smaller than 180 m μ . The B-band of phenol, dicyx- and sym. trioxybenzene lay in the region 210-228 m μ and is the analogue of the 1L_a -band of benzene. The C-band of these compounds was more variable than the B-band; the former occurred in the region 265-290 m μ and originated

Card 1/2

80347

S/051/60/008/06/008/024
E201/E691

Dependence of the Electronic Spectra of the Simplest Derivatives of Benzene on pH.
I. The Absorption Spectra of Oxybenzenes

from the $1L_b$ -band of benzene. The latter band is very weak in benzene but becomes much stronger in oxybenzenes. A D-band was observed in alkaline solutions of pyrocatechin and hydroquinone; it did not have an analogue in the benzene spectrum and it was the n - band of ortho- and paraquinones. In alkaline solutions there were also bands of singly charged (B^- and C^-) and doubly charged (B^{--} and C^{--}) anions displaced compared with the B^0 and C^0 bands of undissociated molecules in the direction of long wavelengths. Interpretation of the bands observed in alkaline solutions requires knowledge of pH of the solution and the variation with time of these bands. Bands which vary in the same way with time are due to the same anion. There are 6 figures and 11 references, of which 1 is Soviet, 4 English, 3 German and 3 mixed (Soviet, French and German). *X*

SUBMITTED: October 6, 1959

Card 2/2

SMIRNOV, L.V.; SUPRUNENKO, A.I.

Electronic spectra of simple benzene derivatives as a function
of pH. Part 2. Absorption spectra of nitrobenzenes and
nitrophenol. Opt.i spektr. 11 no.4:457-464 O :61.

(MIRA 14:10)

(Nitrobenzene-Spectra) (Phenol-Spectra)

AYZENBERG, L.N., kand.khim.nauk; BOGDANOVSKAYA, T.A.; AYZENBERG, R.S., kand.-
khim.nauk; SUPRUNENKO, A.I.

Preparative syntheses in the juglone series. Trudy Kish.sel'khoz.-
inst. 26:139-148 '62. (MIRA 16:5)
(Juglone)

AYZENBERG, L.N., kand.khim.nauk; SUPRUNENKO, A.I.; BOGDANOVSKAYA, T.A.;
AYZENBERG, R.S., kand.khim.nauk

Analytical reactions of juglone and of some of its derivatives.
Trudy Kish.sel'khoz.inst." 26:159-167 '62. (MIRA 16:5)
(Juglone) (Organometallic compounds)

AYZENBERG, L.N., kand.khim.nauk; BOGDANOVSKAYA, T.A.; VLAD, L.A.;
SUPRUNENKO, A.I.; AYZENBERG, R.S., kand.khim.nauk

New method of determination of 1,5-dihydroxyaphthalene. Trudy
Kish.sel'khoz.inst. 26:169-173 '62. (MIRA 16:5)
(Nephthalenediol)